

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-51. (canceled)

52. (currently amended) A polypeptide having hemopoietic factor receptor protein activity, said polypeptide comprising:

an amino acid sequence from the 20th amino acid Cys to the 361st amino acid Ser of SEQ ID NO:1; or

~~an~~ a modified amino acid sequence from the 20th amino acid Cys to the 361st amino acid Ser of SEQ ID NO:1 with ~~one~~ up to ten amino acids deleted, added, or substituted with a different amino acid, wherein said modified amino acid sequence has a sequence homology of at least 95 percent with the amino acid sequence from the 20th amino acid Cys to the 361st amino acid Ser of SEQ ID NO:1 ~~the polypeptide has hemopoietic factor receptor protein activity.~~

53. (currently amended) A polypeptide having hemopoietic factor receptor protein activity, said polypeptide comprising:

an amino acid sequence from the 20th amino acid Cys to the 144th amino acid Leu of SEQ ID NO:3; or

~~an~~ a modified amino acid sequence from the 20th amino acid Cys to the 144th amino acid Leu of SEQ ID NO:3 with ~~one~~ up to ten amino acids deleted, added, or substituted with a different amino acid, wherein said modified amino acid sequence has a sequence homology of at least 95 percent with the amino acid sequence from the 20th amino acid Cys to the 144th amino acid Leu of SEQ ID NO:3 ~~the polypeptide has hemopoietic factor receptor protein activity.~~

54. (currently amended) A polypeptide having hemopoietic factor receptor protein activity, said polypeptide comprising:

an amino acid sequence from the 1st amino acid Met to the 237th amino acid Ser of SEQ ID NO:5; or

~~an~~ a modified amino acid sequence from the 1st amino acid Met to the 237th amino acid Ser of SEQ ID NO:5 with ~~one~~ up to ten amino acids deleted, added, or substituted with a different amino acid, wherein said modified amino acid sequence has a sequence homology of at least 95 percent with the amino acid sequence from the 1st amino acid Met to the 237th amino acid Ser of SEQ ID NO:5 ~~the polypeptide has hemopoietic factor receptor protein activity.~~

55-57. (canceled)

58. (previously presented) A purified fusion polypeptide comprising the polypeptide of claim 52 and a second polypeptide or peptide.

59. (canceled)

60. (previously presented) An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO: 2, 4, or 6.

61. (previously presented) An isolated nucleic acid, wherein the nucleic acid comprises a nucleotide sequence from the 498th nucleotide T to the 1523rd nucleotide C in SEQ ID NO:2; a nucleotide sequence from the 498th nucleotide T to the 872nd nucleotide A in SEQ ID NO:4; or a nucleotide sequence from the 659th nucleotide A to the 1368th nucleotide C in SEQ ID NO:6.

62. (canceled)

63. (previously presented) A cell comprising the nucleic acid of claim 61, wherein said nucleic acid is operably linked to an expression regulating regulatory nucleotide sequence.

64. (previously presented) A method of producing a polypeptide comprising the amino acid sequence from the 20th amino acid Cys to the 361st amino acid Ser of SEQ ID NO:1, a polypeptide comprising the amino acid sequence from the 20th amino acid Cys to the 144th amino acid Leu of SEQ ID NO:3, or a polypeptide comprising the amino acid sequence from the 1st amino acid Met to the 237th amino acid Ser of SEQ ID NO:5, the method comprising culturing the cell of claim 63 and isolating a polypeptide comprising the amino acid sequence from the 20th amino acid Cys to the 361st amino acid Ser of SEQ ID NO:1, a polypeptide comprising the amino acid sequence from the 20th amino acid Cys to the 144th amino acid Leu of SEQ ID NO:3, or a polypeptide comprising the amino acid sequence from the 1st amino acid Met to the 237th amino acid Ser of SEQ ID NO:5 from said cell, thereby producing said polypeptide.

65. (previously presented) A method of obtaining a compound that binds to the polypeptide of claim 52, the method comprising:

- (a) contacting a test sample with said polypeptide;
- (b) detecting a compound in the test sample that binds to said polypeptide; and
- (c) isolating the compound, thereby obtaining a compound that binds to said polypeptide.

66. (canceled)

67. (previously presented) A purified fusion polypeptide comprising the polypeptide of claim 53 and a second polypeptide or peptide.

68. (previously presented) A purified fusion polypeptide comprising the polypeptide of claim 54 and a second polypeptide or peptide.

69. (previously presented) A vector comprising the nucleic acid of claim 60.

70. (previously presented) A vector comprising the nucleic acid of claim 61.

71 (previously presented) A method of obtaining a compound that binds to the polypeptide of claim 53, the method comprising

- (a) contacting a test sample with the polypeptide of claim 53;
- (b) detecting a compound in the test sample that binds to said polypeptide; and
- (c) isolating the compound, thereby obtaining a compound that binds to said polypeptide.

72. (previously presented) A method of obtaining a compound that binds to the polypeptide of claim 54, the method comprising:

- (a) contacting a test sample with the polypeptide of claim 54;
- (b) detecting a compound in the test sample that binds to said polypeptide; and
- (c) isolating the compound, thereby obtaining a compound that binds to said polypeptide.

73-75. (canceled)

76. (previously presented) An isolated nucleic acid, wherein the nucleic acid consists of a nucleotide sequence from the 498th nucleotide T to the 1523rd nucleotide in SEQ ID NO:2; a nucleotide sequence from the 498th nucleotide T to the 872nd nucleotide A in SEQ ID NO:4; or a nucleotide sequence from the 659th nucleotide A to the 1368th nucleotide C in SEQ ID NO:6.

77. (new) The polypeptide of claim 52, wherein the polypeptide comprises an amino acid sequence from the 20th amino acid Cys to the 361st amino acid Ser of SEQ ID NO:1.

78. (new) The polypeptide of claim 53, wherein the polypeptide comprises an amino acid sequence from the 20th amino acid Cys to the 144th amino acid Leu of SEQ ID NO:3.

79. (new) The polypeptide of claim 54, wherein the polypeptide comprises an amino acid sequence from the 1st amino acid Met to the 237th amino acid Ser of SEQ ID NO:5.